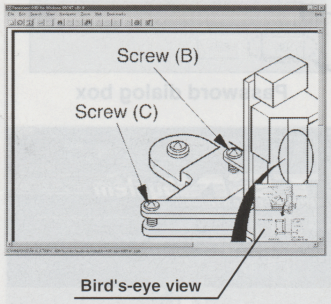
TSN System

Technical Service Navigation

Functions **The TSN System instantly retrieves information required for service and displays that information with high quality. Using these functions makes it possible to provide customers with fast and reliable repairs.**

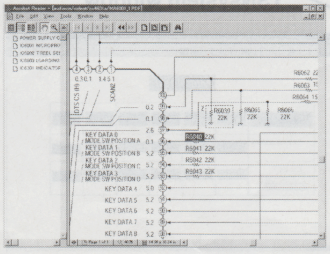


Full-screen illustrations using the tear-off function

Illustrations displayed within the text can be enlarged to 100%, 70% or 30% (selectable) of screen size by clicking the right mouse button. This results in a significant improvement in display quality.

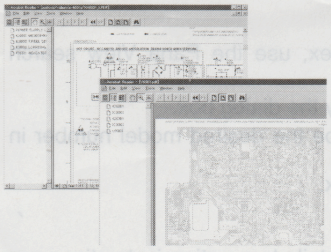
Bird's-eye view of large drawings for easy tracing

Drawings can be displayed in reduced size (bird's-eye view) in the lower right corner of the screen, and the location currently being traced by the user is indicated with a rectangular pointer.



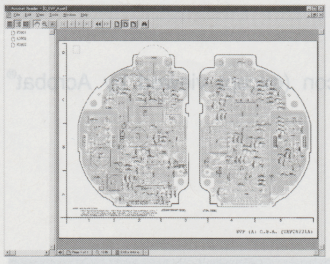
Detection and zoom of component positions in board and circuit drawings

Entering a specific reference number makes it possible to search for the location of that component and zoom in on that component with that component displayed in the center of the screen. Clicking one of the main components indicated in the left frame of the screen causes the display to zoom in on the selected component with that component in the center of the screen.



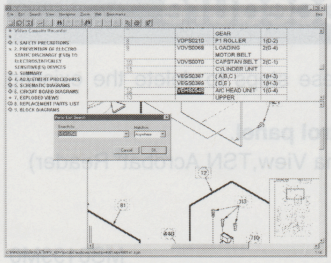
Hot spot link function facilitates signal tracing

Signals can be traced from one circuit drawing to the next corresponding to the repair process. In addition, going back and forth between block diagrams and circuit drawings or between circuit drawings and board drawings can be performed quickly.



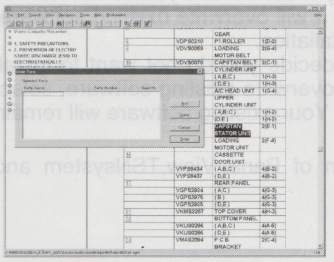
Color for legible display of 2- and 3-layer board drawings

Patterns on board drawings can be displayed in color, a feature unattainable with conventional printing.



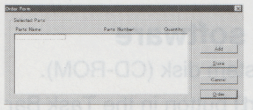
Multiple component search

Clicking the component search icon and entering the reference number in the dialog box enables retrieval of the parts list and highlights the corresponding part number.When searching for a part number from a product name, simply click the text search icon and enter the name in the dialog box. The parts list is retrieved and the corresponding part number is highlighted.



Component ordering feature

When a part number on the parts list is highlighted, clicking the highlighted part causes to display pop up menu and click "add selection" in the pop up menu before clicking part order icon on tool bar. Part number, Part name, Ref. no. and Qty are displayed in dialog for part order sheet. When you add parts to be ordered, repetitively click part number of part list and "add selection" in pop up menu to be added on And then click button "process" to export.



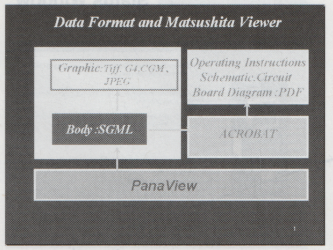
Printing of specified search results

Specified text, illustrations, circuit drawings and so forth can be printed out on A4 or A3 size paper. Color printing is also available.

Memo function

Important repair notes can be stored in the form of memos affixed to specified locations within the text. A bookmark is automatically placed at the location where the memo is affixed so that the memo can be referred to at any time.

Compositions of browsers and data formats



The TSNsystem employs SGML data format for text data, TIFF, G4, CGM, JPEG format for illustrations and PDF data format for large circuit diagrams and circuit board diagrams.

The TSNsystem simplifies browsing for each data format by combining Acrobat® Reader, TSN Navigation and Pana View. All three browsers must therefore be installed. Follow the instructions on the back side to install the browsers.

Pana View has improved component number search, component name search, and word search functions, and allows ordering of components. It is Internet compatible and can be used on the network in combination with a network browser.

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Installation Directions

■ Before Installation

1..Close **all other programs** prior to installation.

2..If reinstalling, confirm your computer's existing of software. If you do not want to reinstall a specific piece of software because it will overwrite existing software, select SINGLE installation to continue the installation.
If you select a full Installation but then you decide you do not want to install specific pieces of software because they will overwrite existing software, select CANCEL or NO when the dialog is displayed. Your existing software will remain untouched.

NOTICE: Be sure to use the latest version of Pana View,TSNsystem and Acrobat Reader to ensure correct operation.

■ Installing the software

1..Insert the TSNsystem disk (CD-ROM).

2..Click on the **[Start]** button in the Task Bar and select **[Run...]** in the [dialog].

The menu window will appear. Specify your **CD drive letter** and the following file ,"**:\panadoc\setup\instmenu.exe**".

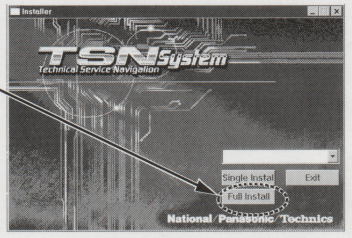
For example: D:\panadoc\setup\instmenu.exe

You will see the **TSN Main Splash Screen** as shown on the right.

3..Click **[Full Install]** and installation will start automatically in the order of **Pana View, TSNsystem** and **Acrobat® Reader.**

NOTICE: Do not click the [EXIT] button until the Acrobat Reader is completely installed.

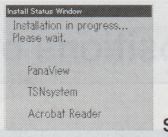
During installation, the screen will show the status of the installation.



TSN Main Splash Screen

After installation of each software is finished or canceled, a check mark[√] will appear.

[Single Installation]: When installing software individually, select the software on the pull-down menu and click **[Single Install]**. Follow the prompts.

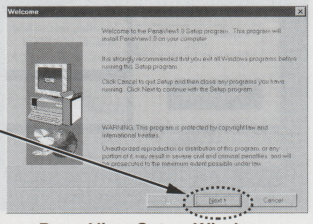


Status Window

The Pana View Setup Window will appear.

4..Follow the setup menu to install **Pana View**.
In this window, click the **[Next]** button and follow the prompts to complete installation.

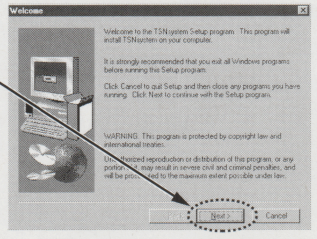
When Pana View's installation is complete, the **TSNsystem Setup Window** will appear.



Pana View Setup Window

5..Follow the setup menu to install the **TSN system.**
In this window, click the **[Next]** button.

When the TSNsystem installation is complete, the **Acrobat Reader** dialog box will appear.

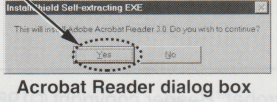


TSNsystem Setup Window

6..Follow the setup menu to install the **Acrobat Reader.**
In this window, click the **[Yes]** button.

7..When installation is complete, "Full Install is Complete" message will appear.
Click [OK], then close the Pana View group and TSN Main Splash Screen.

When this is done, confirm that a TSN icon was created on the desktop.



Acrobat Reader dialog box

● Installation is now complete.

TSNsystem icon

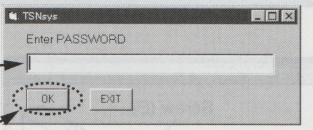
Operating Instructions for the TSNsystem

1..Click on the **[TSNsystem]** icon on the Desktop.

TSNsystem icon

2..Display the opening window and enter password in the dialog box.

Password is as follows,
"**panasonic**".



Password dialog box

If you want to view the models in your area only, please enter the corresponding password below.

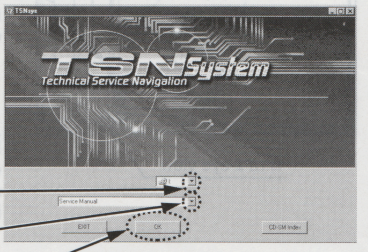
N.America---"**panana**"

Europe-------"**panaeu**"

Asia, Oceania, Middle East, Central and South America and others
-------"**panaot**"

3..Click on the **[OK]** button.

The TSNsystem window will appear.



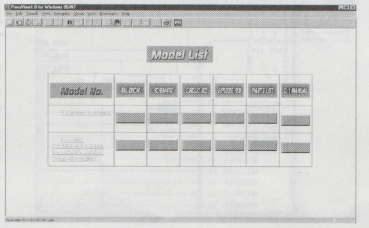
TSNsystem window

4..Select the **CD-ROM drive**.

5..Click on the "**Service Manual**" in the pull-down menu.

6..Click on the **[OK]** button.

7..The model number list and the section titles of the service manual will be displayed as shown.
Click on the model number or a specific section button.



Model List Window

- CD-SM Index -

1..To search model number in the CD-SM index, use the Pana View search function.

2..Click the [Search] icon on the toolbar to display the dialog box.

3..From the Search In list, select Tables and type the desired model number in the Search For window.
Click [OK] to begin searching the CD-SM index.

- Help function -

Please refer to "help" on the menu bar when detailed operation instructions are needed.

- Printing for the Exploded View, etc -

To print the image viewed by clicking on an icon (except viewed by Acrobat® Reacer).

1..Click on an icon. ——

2..Display an image in the tear off window.

3..Select [Print] from the Zoom menu.

Re-installation procedure

If you wish to re-install again, please follow these steps to delete the existing software.

1..Open the **Add/Remove Program** in the **Control panel**.

2..Remove what you have already installed. (Pana View,TSN,Acrobat® Reader)

3..Re-install again.